Title (en)

Arrangement plus method to emulate a multi-path environment in a radio network arranged in or extended into an environment that is free of multi-path effects

Title (de)

Anordnung und Verfahren zur Emulierung einer Mehrwegumgebung in einem Funknetz, das sich in einer mehrwegeffektfreien Umgebung befindet oder in diese hineinreicht

Title (fr)

Agencement et procédé pour émuler un environnement par trajets multiples dans un réseau radio agencé ou étendu dans un environnement sans effets de trajets multiples

Publication

EP 1916780 A2 20080430 (EN)

Application

EP 07119326 A 20071025

Priority

DE 102006050179 A 20061025

Abstract (en)

An arrangement (1) to emulate a multi-path environment in a wireless network, particularly in an UMTS or a CDMA network arranged in or extended into an environment that is free of multi-path effects like e.g. an environment inside of buildings, tunnels and the like is described, wherein said arrangement is characterized by at least two parallel Radio Frequency signal paths (AC, BC) showing different time delays, wherein said signal paths (AC, BC) on their first sides (C) are connected with each other and on their second sides (A, B) are connected with own antennas (4, 5) respectively. Furthermore a method to emulate a multi-path environment in a wireless network is described, said method comprising the steps of: - generating at least two substantially identical signals from one signal - individually delaying said substantially identical signals by different time delays, - combining said individually delayed signals in order to generate a new signal showing a behavior similar to a signal in a multi-path environment.

IPC 8 full level

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